

## **Abstract**

Flood is a common disaster that caused by some factor that also can cause any fatal outcome even can cause a death whether it's not handled correctly by the government. Bandung, exclusively Baleendah and surrounding, is one of the most troubled place because of this flood disaster in Indonesia. In this research, we discuss about any warning when there is any water height on the river if a quite big rain is happened.

In this research architecture, using a height detector (ultrasonic) on the maximum range of height which has been code with a transmission data tools also using a wireless sensor network principle. When the water height reach the maximum range of height, it will send a signal of a result of the water range from the sensor. The height sensor will make a signal that will send by Zigbee protocol to user which is the government.

From the test result, this system can gives user a data with a quite high accuracy. This system also give user the same result with an eye prespective result. This system also gives user information about water range and volume.

**Keywords:** Zigbee, flood, wireless sensor network